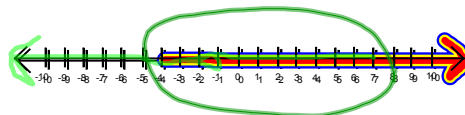


1-6 Solving Compound and Absolute Value Inequalities

AND conjunction intersection \cap OR disjunction union \cup

$$-4 \leq x \leq 7$$

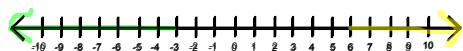
$x \geq -4$
 AND
 $x \leq 7$



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$$x \leq -3 \text{ OR } x \geq 6$$



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ex:

$$-9 < 3(x-2) \leq 6$$

$$-3 < x-2 \text{ AND } x-2 \leq 2$$

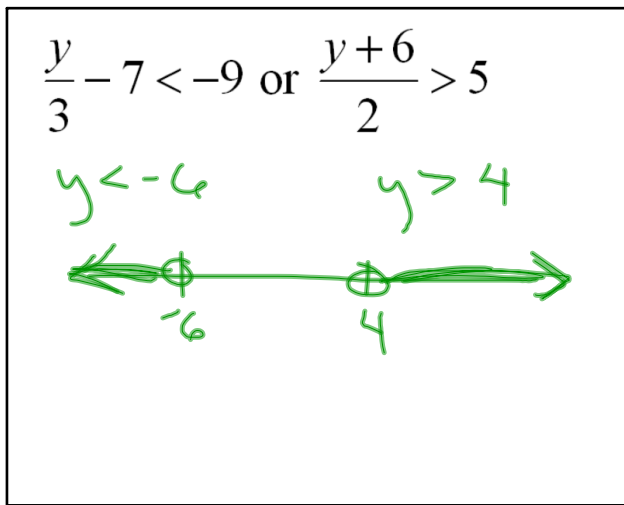
$$-1 < x$$

$$x > -1$$

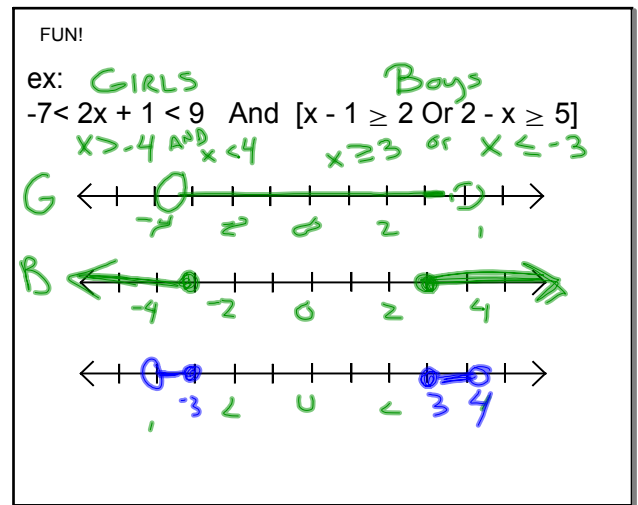
$$x \leq 4$$



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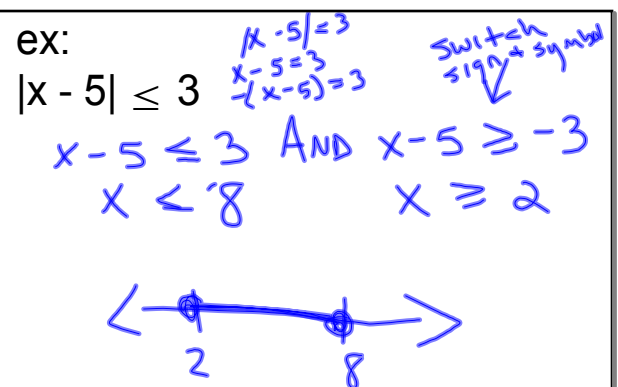


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Absolute Value and Order

Less Than **AND**Greater **OR** than

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ex:

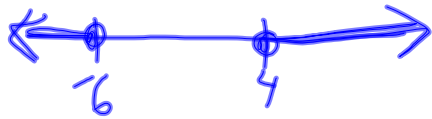
$$-3|a + 1| \leq -15$$

$$|a+1| \geq 5 \quad \text{OR}$$

$$a+1 \geq 5 \quad \text{OR} \quad a+1 \leq -5$$

$$a \geq 4$$

$$a \leq -6$$



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ex:

$$|2x| < -6$$

$$\emptyset$$

$$2x < -6 \quad \text{AND} \quad 2x > 6$$

$$x < -3$$

$$x > 3$$

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Do:

$$1. |1.5x + 6| \geq 3$$

$$2. |2x + 1| \leq 5$$

$$3. -7 < 2x - 3 < -1 \quad \text{OR} \quad -1 < 3x + 2 < 14$$



HW p44 #s 27-43odd and 44

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